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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/702,506	11/07/2003	Christos Tsironis	8537	
75	590 11/23/2005		EXAMINER	
Christos Tsironis			NGUYEN, VINCENT Q	
1603 St. Regis D.D.O, QC H9B 3H7			ART UNIT	PAPER NUMBER
CANADA			2858	
			DATE MAILED: 11/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/702,506	TSIRONIS, CHRISTOS				
Office Action Summary	Examiner	Art Unit				
	Vincent Q. Nguyen	2858				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	tively filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 29 March 2005.						
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	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 7-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 7-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 29 March 2005 is/are: a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	a)⊠ accepted or b)□ objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
•:						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claim 7 is rejected under 35 U.S.C. 102(b) as being anticipated by Cusack et al. (The article "Automatic Load Contour Mapping" submitted in the IDS filed 11/07/2003).

Regarding claim 7, Cusack et al. Cusack et al. discloses a microwave load pull tuner comprising a test port and an idle port (Any microwave coupler has test port and an idle port including the one shown in figure 5 of Cusack et al. for microwave signal coupling), a horizontal transmission airline in form of a slotted coaxial (Figure 1), two sliding carriages (slugs) carrying a metal-dielectric combination probe each and means (Slide Wire Power Supply) for remote horizontal position control of the said combination probe.

3. Claims 7, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsironis (6,297,649).

Regarding claim 7, Tsironis discloses a microwave load pull tuner comprising a test port and an idle port (Any microwave coupler has test port and an idle port including the one shown in figure 4), a horizontal transmission airline in form of a slotted coaxial (Figure 8), two sliding carriages (1, 2) carrying a metal-dielectric combination probe each and means for remote horizontal position control of the said combination probes (Column 4, lines 60-63).

Regarding claim 8, Tsironis discloses probes being made of cylindrical horizontal dielectric inserts (Figures 10-11), which slide on the central conductor of the slotted airline of electromechanical tuners, said dielectric cylindrical inserts being, in turn, embedded inside a cylindrical opening inside a square metallic slug body, which said slug body slides inside and along the ground walls of the slotted airline, parallel to the central conductor (Figures 10-11).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 9, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsironis (6,297,649).

Regarding claims 9, 10, Tsironis does not discloses probes with the external diameter of the cylindrical dielectric core of the probe varying between a maximum value of the width of the slot of the airline less 0.020" and a minimum value of the diameter of the central conductor of said slotted airline plus 0.020".

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate a certain size of the diameter into the device of Tsironis since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Allowable Subject Matter

Claim 11 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to claims 7-11 have been considered but are most in view of the new ground(s) of rejection.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent Q. Nguyen whose telephone number is (571) 272-2234. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on (571) 272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/702,506

Art Unit: 2858

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Vincent Q. Nguyen Primary Examiner Art Unit 2858 Page 5

November 17, 2005



REPLACEMENT SHEET

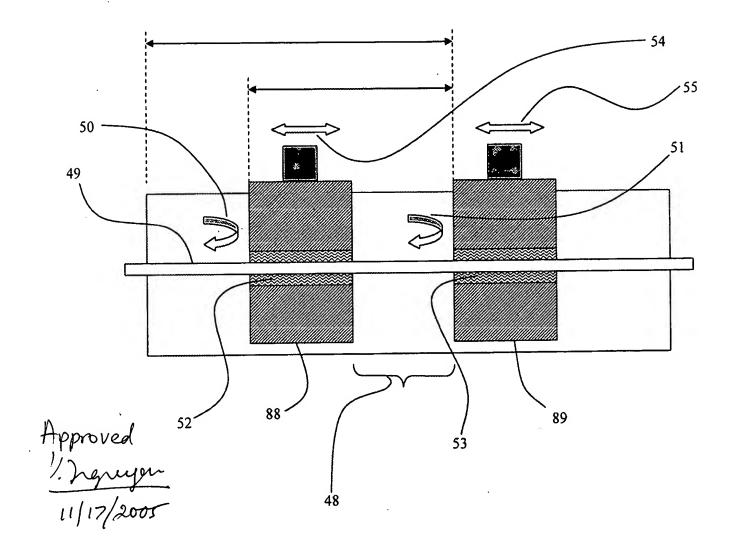


FIG. 8 Partly Prior Art - Cross section